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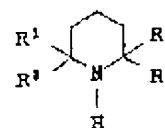
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(54) CATALYST FOR POLYMERIZING OLEFINS

(57)Abstract:

PURPOSE: To obtain a catalyst capable of providing a highly stereo-regular polymer having a well-ordered shape, acting in high activity in polymerizing an olefin, comprising a solid catalytic component prepared by a specific method, a piperidine derivative and an organoaluminum compound.

CONSTITUTION: A catalyst consisting of (A) a solid catalytic component obtained by preparing a uniform solution from a substance obtained by grinding magnesium chloride and silicon oxide, ≤ 2 pts.wt. based on 1pt.wt. of the substance of a tetraalkoxytitanium, an aliphatic hydrocarbon (e.g. pentane or hexane) liquid at -30 to 50°C and an aliphatic alcohol (e.g. ethanol) liquid at -30 to 50°C , dripping TiCl_4 at $\leq 0^{\circ}\text{C}$ to the solution without causing sediment, heating the prepared solution while stirring, adding a phthalic diester to the solution at $\geq 80^{\circ}\text{C}$ while stirring, separating the prepared solid product and bringing TiCl_4 into contact with the solid product (B) a di- or tetra-substituted piperidine derivative shown by the formula (R^1 to R^4 are H or alkyl) and (C) an organoaluminum compound.



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